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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/085,242	10/085,242 02/27/2002		Allison Holbrook	M-12360 US	1647
25700	7590	02/11/2004		EXAMINER	
FARJAMI 16148 SANI			DUDA, KATHLEEN		
IRVINE, CA 9261				ART UNIT	PAPER NUMBER
				1756	

DATE MAILED: 02/11/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/085,242	HOLBROOK E	ET AL.
Office Action Summary	Examiner	Art Unit	
	Kathleen Duda	1756	
The MAILING DATE of this communication app Period for Reply	ears on the cover s	sheet with the correspondence	address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.			
If the period for reply specified above is less than thirty (30) days, a reply lif NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	vill apply and will expire SI cause the application to b	X (6) MONTHS from the mailing date of the tecome ABANDONED (35 U.S.C. § 133)	his communication.
Status			
1) Responsive to communication(s) filed on 22 L	<u>December 2003</u> .		
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-fin	al.	
3) Since this application is in condition for allowations of closed in accordance with the practice under			o the merits is
Disposition of Claims	•		
4) Claim(s) <u>1-29</u> is/are pending in the application		ion	
4a) Of the above claim(s) is/are withdray	vn from considerai	1011.	
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1-29</u> is/are rejected.	•		
7) Claim(s) is/are objected to.	· 14: :		
8) Claim(s) are subject to restriction and/o Application Papers	r election requirem	ent.	
9) The specification is objected to by the Examine	r		
10) The drawing(s) filed on is/are: a) accept		to by the Examiner	·
Applicant may not request that any objection to the		• -	(a).
11) The proposed drawing correction filed on			
If approved, corrected drawings are required in rep			
12) The oath or declaration is objected to by the Ex			
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreign	priority under 35	U.S.C. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:		• (7(7)	
1.☐ Certified copies of the priority documents	s have been receiv	/ed.	
2. Certified copies of the priority documents		•	
3. Copies of the certified copies of the prior application from the International Bu	rity documents hav	e been received in this Natio	
* See the attached detailed Office action for a list			
14) Acknowledgment is made of a claim for domesti	c priority under 35	U.S.C. § 119(e) (to a provision	onal application).
a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesti			
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>0</u> 2	5) 🔲 1	nterview Summary (PTO-413) Pape Notice of Informal Patent Application Other:	

Application/Control Number: 10/085,242

Art Unit: 1756

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group I, claims 1-29, in Paper
 No. 12222003 is acknowledged.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Riley (US Patent 6,492,275) in view of Yu (US Patent 6,268,253).

Riley teaches a method of patterning sidewall spacers. A gate electrode 14 has an oxide film 40 formed on it. The layer is about 50-200 Å thick. The layer is then etched to form the spacers 18a and 18b. (See column 5, line 65 to column 6, line 26 and Figures 4 and 5). An ion implantation then follows (column 7, lines 13-19). A second set of spacers is formed (see column 7, lines 20-46 and Figures 6 and 7). An ion

Application/Control Number: 10/085,242

Art Unit: 1756

implantation can occur after the formation of the second set of spacers (column 7, lines 53-60).

Riley does not teach the removal of the spacers. This is taught by Yu.

Yu teaches a process of using a removable spacer in an electrical device. Figure 5, depicts the spacer <u>212</u>. After the spacer is formed, it is taught that ion implantation occurs (Figure 6). The spacer is then etched using a plasma. See column 5, line 39 to column 6, line 46.

Therefore, it would have been obvious to have used two sets of spacers which are removed after further processing such as ion implantation because that removal of the spacers allows scaling down of the dimensions.

Conclusion

4. Any inquiry concerning this communication should be directed to Examiner K. Duda at (571) 272-1383. Official FAX communications should be sent to (703) 872-9306.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff, can be reached at 571-272-1385.

Information regarding the status of an application may be obtained from the Patent Application Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Application/Control Number: 10/085,242

Art Unit: 1756

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Kathleen Duda Primary Examiner AU 1756